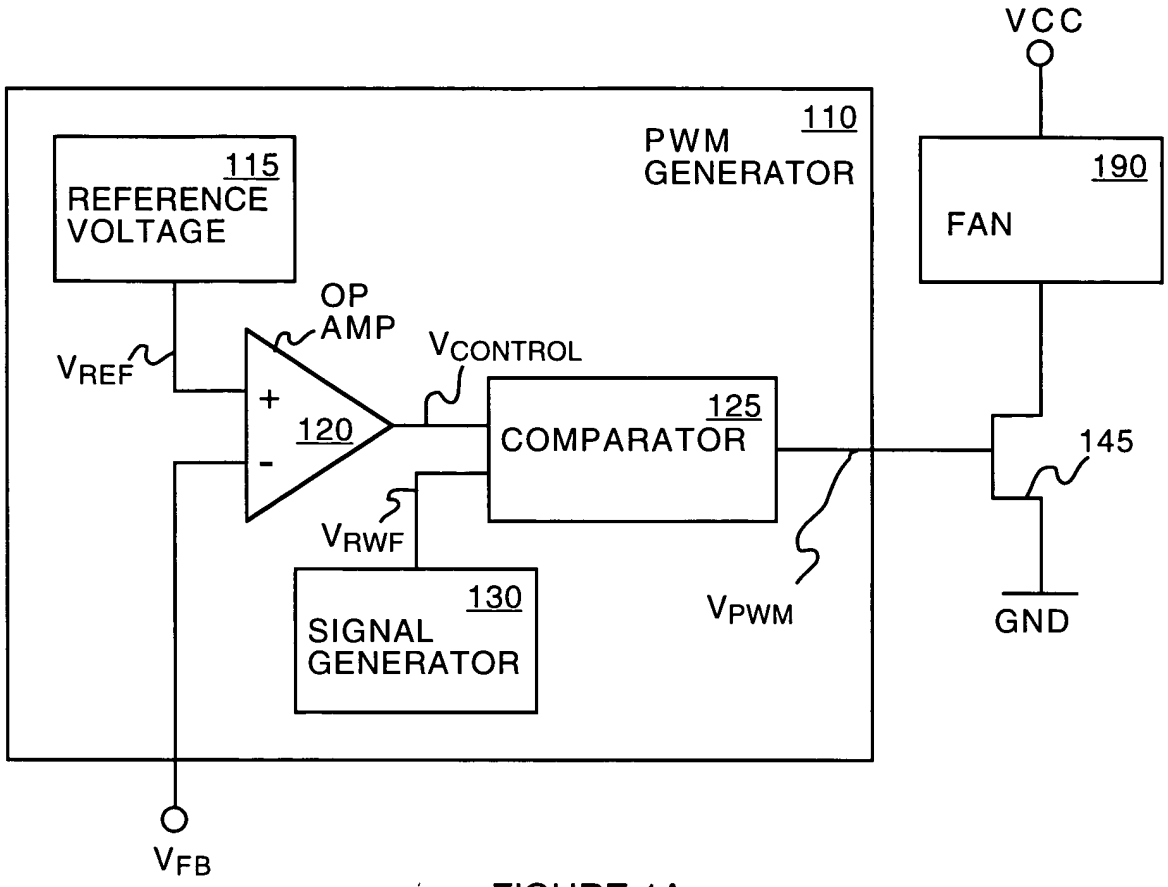



FIGURE 1A

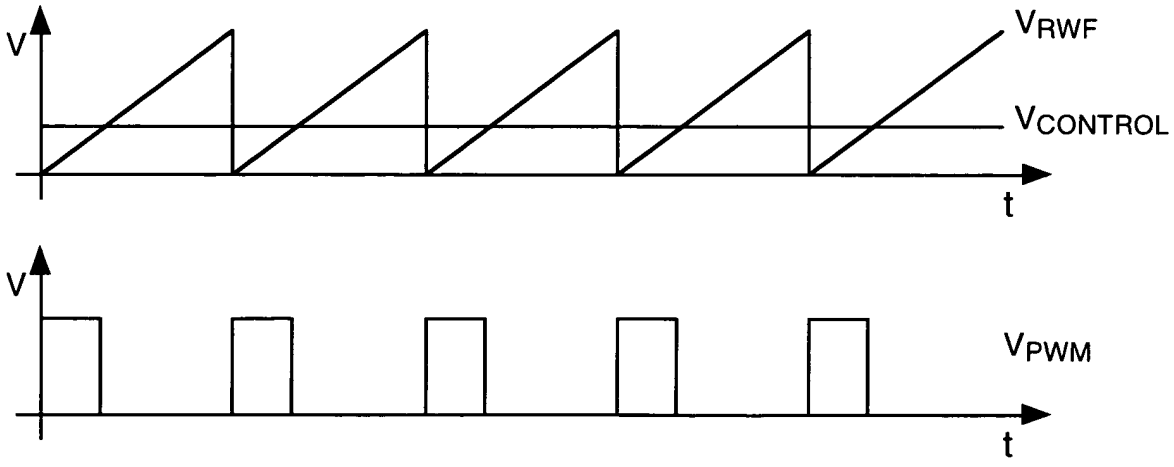



FIGURE 1B

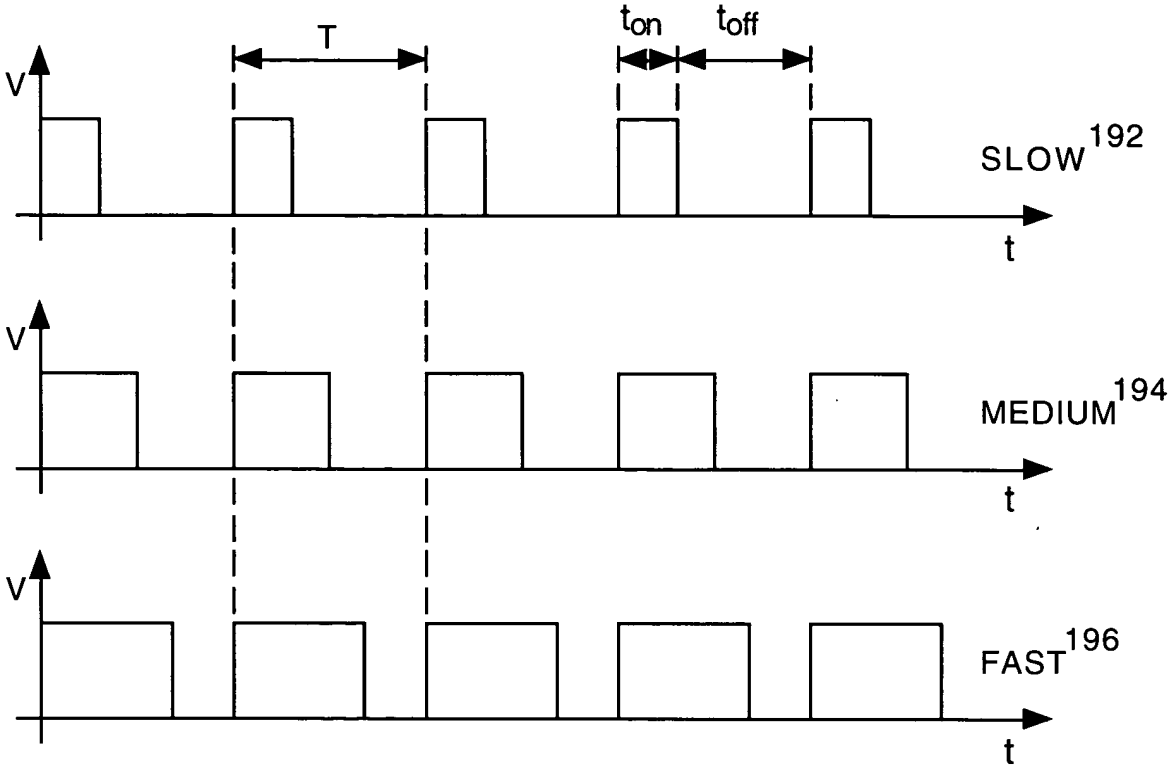



FIGURE 1C

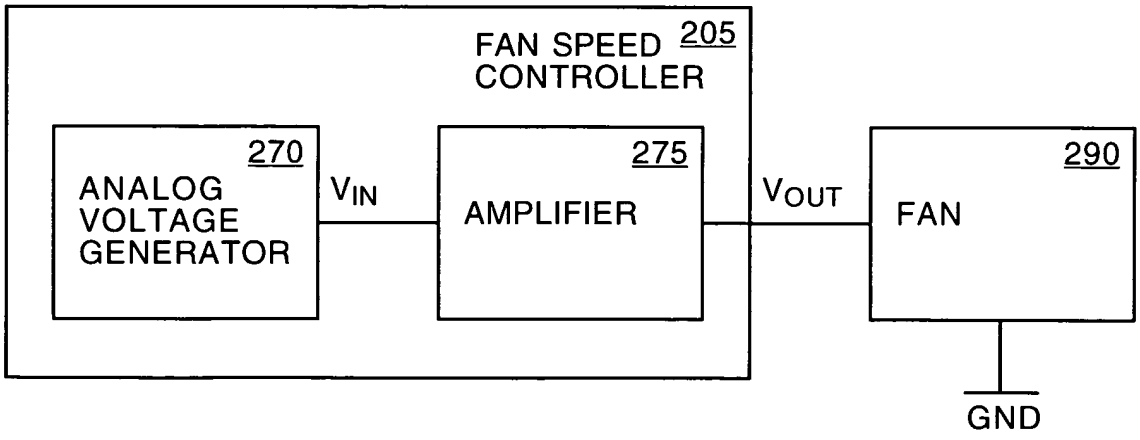



FIGURE 2A

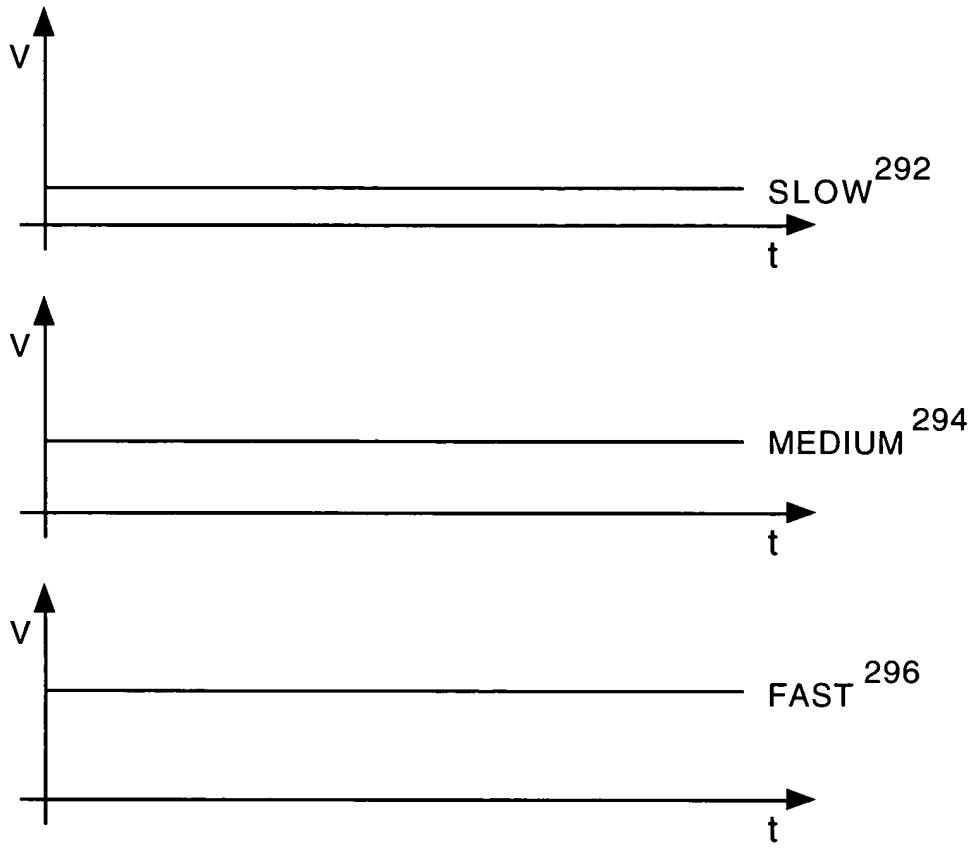



FIGURE 2B

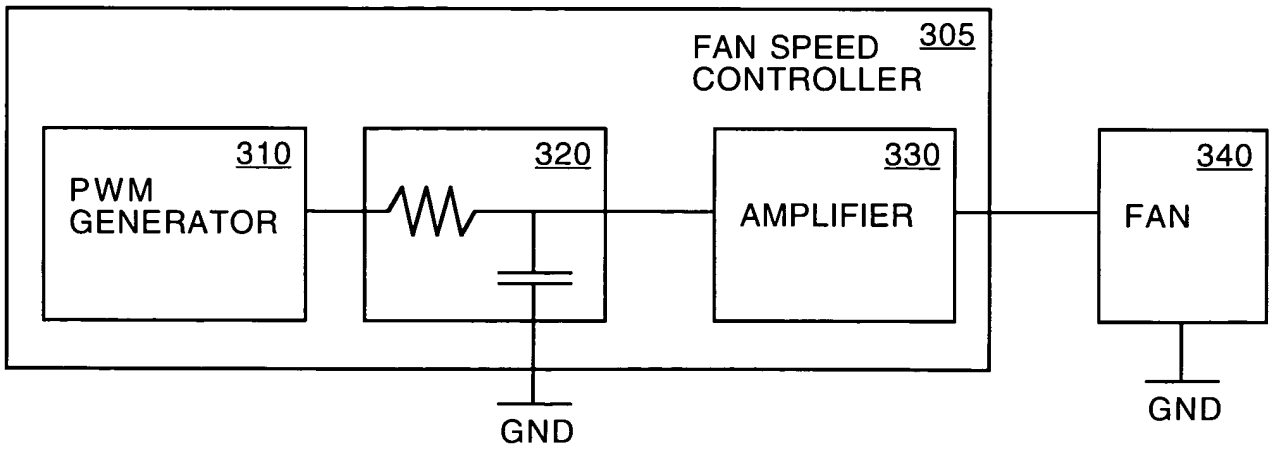
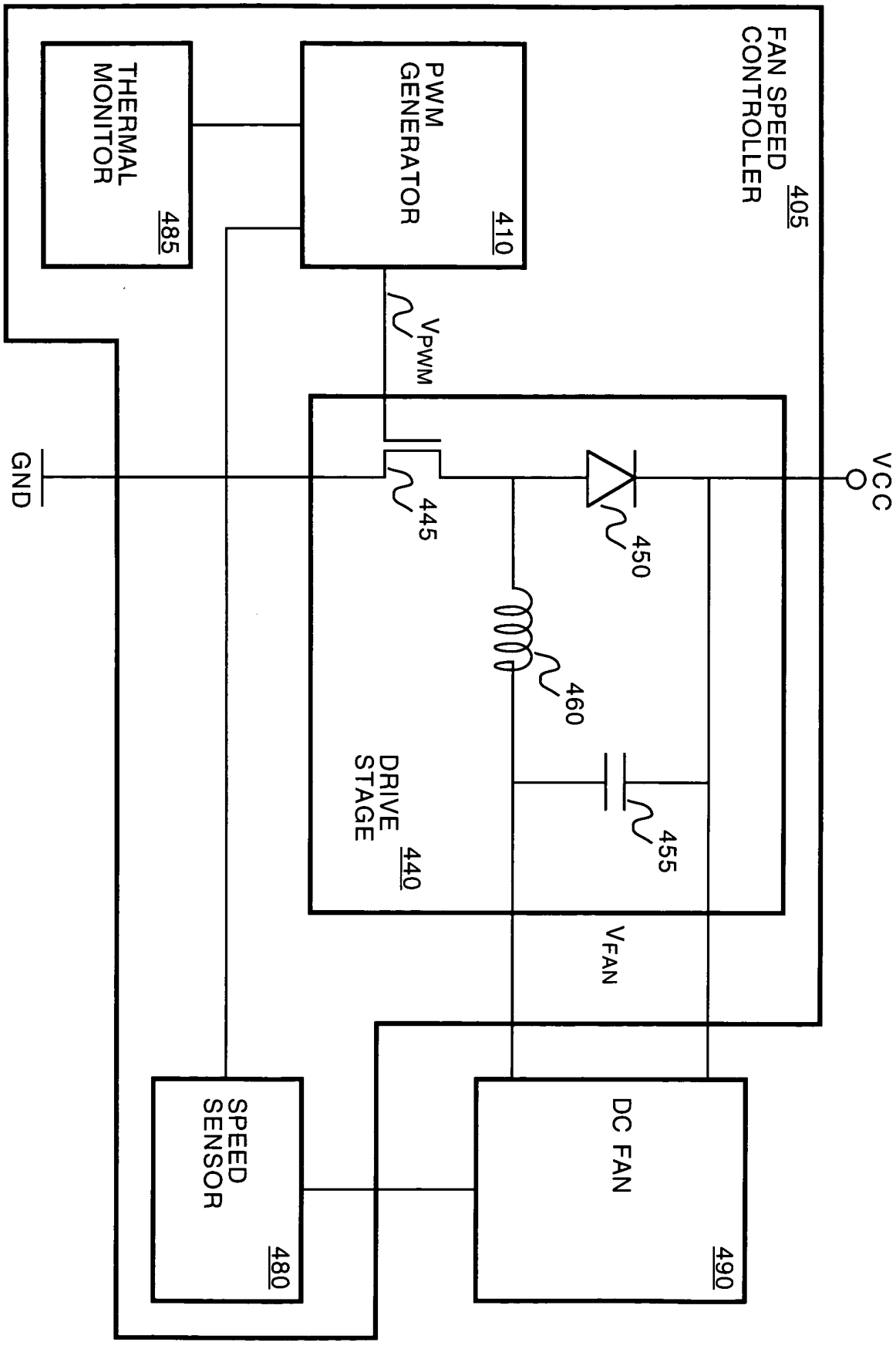



FIGURE 3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THERMAL MONITOR 485
PWM GENERATOR 410
VPWM
GND
VCC
445
450
460
455
DRIVE STAGE 440
VFAN
SPEED SENSOR 480
DC FAN 490

FIGURE 4A

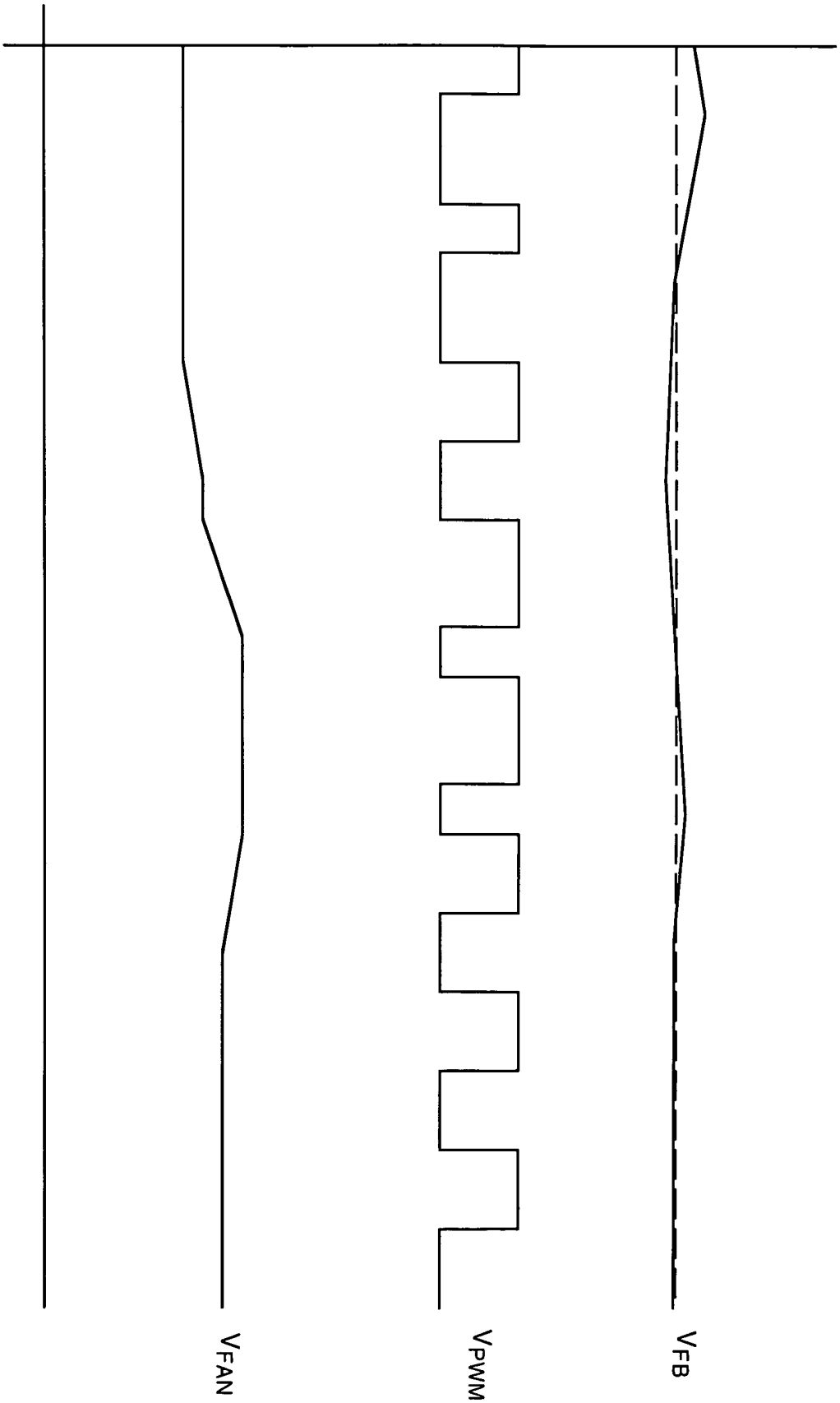
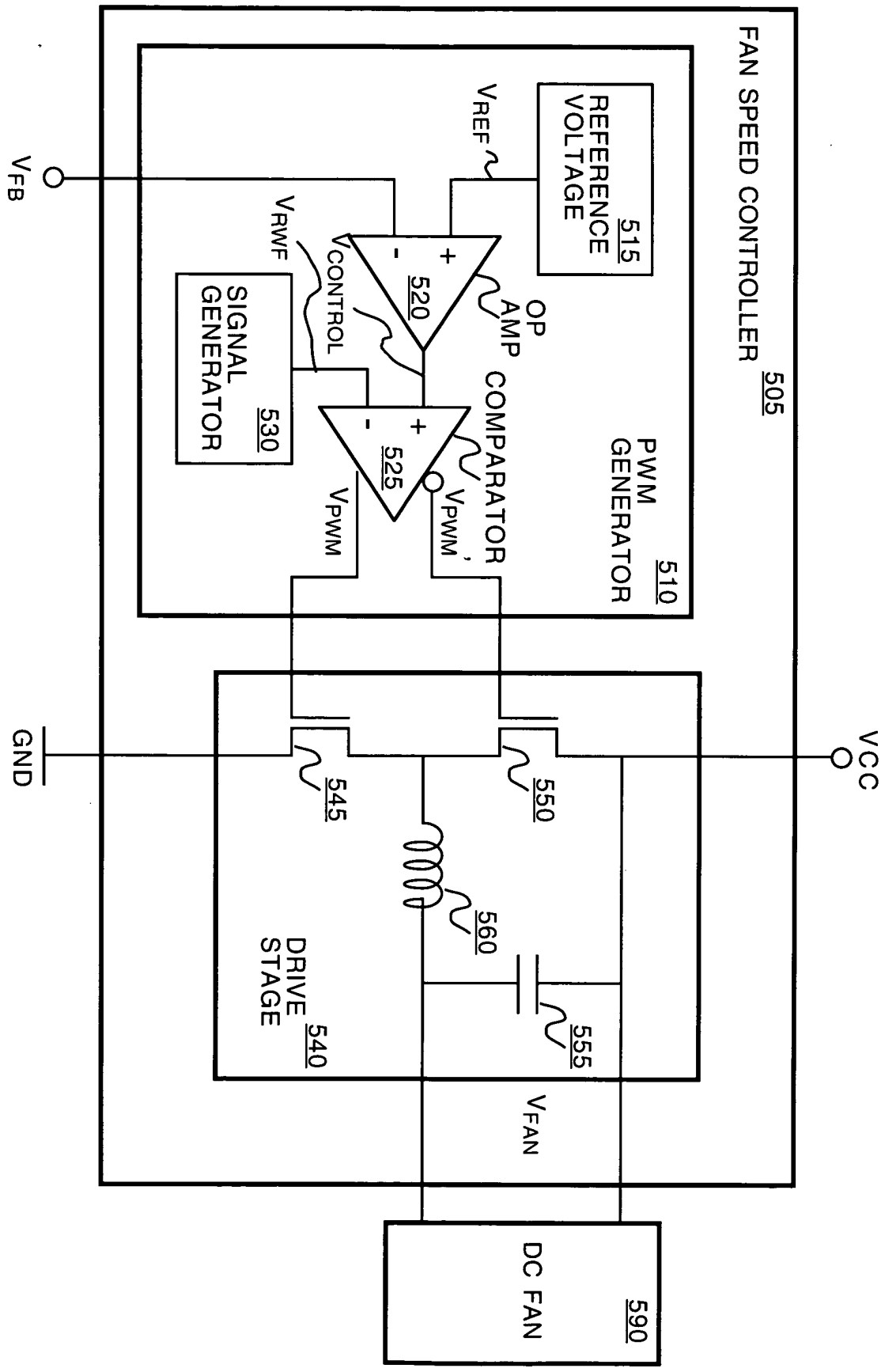



FIGURE 4B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VFB
VRWF
VCONTROL
SIGNAL GENERATOR 530
520
OP AMP
525
COMPARATOR
VPWM
VPWM'
PWM GENERATOR 510
GND
VCC
545
550
560
555
DRIVE STAGE 540
VFAN
DC FAN 590

FIGURE 5